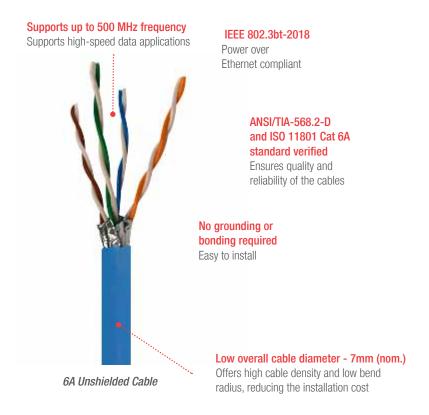# PowerCat 6A Unshielded LS0H Cable   **molex**

The PowerCat 6A unshielded LS0H Cable is specifically designed to support high-speed data network applications such as 10GBASE-T. The innovative design includes a metal tape wrap around each pair, which provides excellent Alien Crosstalk defence.   The low diameter of the cable allows for a higher cable density in containment, reducing cost. The product is 3rd party verified to ANSI/TIA-568.2-D and ISO 11801 Category 6A standards.

Features and Advantages

Supports up to 500 MHz frequency
Supports high-speed data applications

IEEE 802.3bt-2018
Power over
Ethernet compliant

**ANSI/TIA-568.2-D
and ISO 11801 Cat 6A
standard verified**
Ensures quality and
reliability of the cables

**No grounding or
bonding required**
Easy to install

6A Unshielded Cable

Low overall cable diameter - 7mm (nom.)
Offers high cable density and low bend
radius, reducing the installation cost

Markets and Applications

IT Infrastructure Solutions

IT and Telecommunication

Government and Education

Financial

Insurance

Legal

Healthcare

- Suitable for any high-speed data application up to 500MHz 10/100/10GBASE-T

- Backward compatible to legacy protocols and applications

PowerCat 6A Unshielded LS0H Cable **molex**

Specifications

REFERENCE INFORMATION

Commercial Standards:
ANSI/TIA-568.2-D Cat 6A
ISO 11801/IEC 11801 Ed 2.2
IEC 61156-5
IEEE 802.3bt-2018 - Amendment 2
3rd Party verified by Intertek ETL
Environmental Standards:
RoHS compliant
Fire Propagation Tests:
IEC 60332-1, IEC 60754-1&2,
IEC 61034-2
EN 50575:2014+A1:2016: EuroClass
Dca-s2, d1, a1
DoP No: MLXCES-2018-C-034

ELECTRICAL

DC Resistance: 77 Ohm/km max. (2% max.
resistance unbalance)
DC Loop Resistance: 154 Ohm/km max. (2% max.
resistance unbalance)
Voltage Rating: 72Vdc max.
Delay Skew: 25nS/100m max.

MECHANICAL

Tensile Strength: 150N max.

PHYSICAL

Pair Count: 4
Conductor: Solid annealed copper
AWG: 23 (0.56mm)
Insulation: LS0H
Cable Diameter: 7.0mm nom.
Bending Radius (min.): 8 x O.D.
Weight (approx.): 25.5kg nominal/500m reel
Sheath Colour: Blue RAL 5015
Metal Wrap: Aluminium foil
Operating Temperature: -20 to +60°C
Installation Temperature: 0 to +50°C
NVP: 75-77% nom.

ELECTRICAL

Frequency MHz	Insertion Loss	NEXT	PS NEXT	ACRF	PS ACRF	RL	Delay	TCL	EL-TCL	PS ANEXT	PSAACRF
	dB/100m	dB	dB	dB/100m	dB/100m	dB	nS/100	dB	dB.	dB	dB
	max.	min.	min.	min.	min.	min.	max.	min.	min.	min.	min.
1	2.0	74.3	72.3	67.8	64.8	20.0	570.0	40.0	35.0	67.0	67.0
10	5.9	59.3	57.3	47.8	44.8	25.0	545.0	40.0	15.0	67.0	58.2
20	8.3	54.8	52.8	41.8	38.8	25.0	542.0	37.0	9.0	67.0	52.2
25	9.3	53.3	51.3	39.8	36.8	24.3	541.0	36.0	7.0	67.0	50.2
30	10.2	52.1	50.1	38.3	35.3	23.8	541.0	35.2	5.5	67.0	48.7
62.5	14.9	47.4	45.4	31.9	28.9	21.5	539.0	32.0	NS	65.6	42.3
100	19.0	44.3	42.3	27.8	24.8	20.1	538.0	30.0	NS	62.5	38.2
200	27.5	39.8	37.8	21.8	18.8	18.0	537.0	27.0	NS	58.0	32.2
250	31.0	38.3	36.3	19.8	16.8	17.3	536.0	26.0	NS	56.5	30.2
300	34.2	37.1	35.1	18.3	15.3	16.8	536.0	25.2	NS	55.3	28.7
400	40.0	35.3	33.3	15.8	12.8	15.9	536.0	24.0	NS	53.5	26.2
500	45.3	33.8	31.8	13.8	10.8	15.2	536.0	23.0	NS	52.0	24.2

Ordering Information

Series No.	SAP No	Description
CAA-00422-BL*	1810000030	PowerCat 6A Unshielded LS0H Cable Blue 500m reel
* Available in APAC only		
CAA-00424-BL†	1810000014	PowerCat 6A Unshielded Dca-s2, d1, a1 Cable Blue 500m reel
† Available in EMEA only		

www.molexces.com